

Abstract of the Disclosure

An apparatus for measuring spectral absorbance using unique optical modulator capable of temporally changing the spectral wavelength proportion of the light source to produce spectral absorbance data of a sample having: a) a light source able to produce light in the desired wavelength region to be measured for spectral absorbance. b) optical modulator capable of temporally changing the spectral wavelength proportion of the light source. c) sample holder capable of introducing the sample into the light path and d) photosensor for determining the total light intensity after passing through the sample.